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1. N11A-T004: High Resolution Measurement of the Flow Velocity Field in a Supersonic Jet Plume

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a non-invasive (non-seeded) approach to measure the unsteady, 3-D velocity field of a supersonic jet plume for a stationary aircraft. Looking also to make high resolution, time resolved measurements of the turbulent flow field for Short Take-Off/Vertical Landing (STOVL) aircraft with both subsonic and supersonic flow regions. DESCRIPTION: Modern supersonic jet aircraft engin ...

STTR Navy

2. N11A-T005: Modeling of pulse propagation in a four level atomic medium for gyroscopic measurements

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop robust, versatile and computationally efficient models for an as yet not designed gyroscope based on a four level N-scheme atomic system and a bidirectional ring resonator. DESCRIPTION: It has long been known since the pioneering work of Sagnac that light can be a utilized to perform interferometrically sensitive measurements of rotation. If one considers a ring cavity rotati ...

STTR Navy

3. N11A-T006: Advanced Thin-film Battery Development

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop novel light weight high efficiency thin-film batteries for use in Unmanned Autonomous Vehicles (UAVs), remote sensors, expendables, energy harvesting and in"wearable"flexible electronics. DESCRIPTION: Energy harvesting is important for distributed networks used in remote sensors, perimeter protection, intruder alerts and for widespread monitoring of bio-threats. Most energy ...

STTR Navy

4. N11A-T007: Modeling to Quantify Improved Durability of Superfinish Gear Processing

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop physics based gear health models to quantify the benefit of superfinish over conventional gear processing techniques with regard to pitting, spalling and tooth bending fatigue failure modes. DESCRIPTION: Superfinish processed gears have demonstrated improved performance and durability over conventionally processed gears. However, this improvement has not been quantified. ...

STTR Navy

5. N11A-T008: Modeling Tools for the Development of Innovative Wavelength Division Multiplexed (WDM) Local Area Networks (LAN)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop and demonstrate innovative analysis, modeling, and optimization tools and approaches that can characterize the complex interactions between optical network components. DESCRIPTION: Single-mode optical fiber based dense wavelength division multiplexing (DWDM) optical networks are well established as a leading solution for data communication links for commercial long distance t ...

STTR Navy

6. N11A-T009: High Density, High Efficiency Electrical Power Generation System for UAS Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a high-density, high-efficiency aircraft electrical power generation system with the goal of optimizing heat load, output power, size, and/or weight of future power generation systems. DESCRIPTION: Electrical power generation systems have inherent inefficiencies due to electrical and mechanical loss mechanisms. New technologies are sought to increase the power density and eff ...

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7. N11A-T010: High Fidelity Helicopter Lag Damper Model for Comprehensive Rotor Analysis

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop an experimentally validated high fidelity nonlinear lag damper model that accurately predicts behavior of passive and semi-active or active lag dampers for a range of temperatures, amplitudes, and frequency range, for implementation into a comprehensive rotorcraft analysis system for rotor loads prediction. DESCRIPTION: The use of a Health and Usage Monitoring System (HUMS) f ...

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8. N11A-T011: Monolithic Beam-Combined Mid-Infrared Laser Array

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a power-scalable, robust, chip-based solution for a monolithic beam-combined quantum cascade laser (QCL) array with high continuous wave (CW) output power in the tens to hundreds of Watts and excellent beam quality in the mid-wave infrared (MWIR) spectral range for infrared countermeasure and other relevant DoD applications. DESCRIPTION: High-power, monolithic, cost-effective ...

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9. N11A-T012: Emitter Geolocation Enhancements for Time-Sensitive Targeting and Naval Battlespace Awareness

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop, analyze and deploy enhanced techniques to improve emitter detection and geolocation performance for improved time-sensitive targeting and Naval Battlespace Awareness DESCRIPTION: Traditional techniques for emitter geolocation include Angle of Arrival (AOA) for single sensor platform situations and Time Difference of Arrival / Frequency Difference of Arrival (TDOA/FDOA) as a ...

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10. N11A-T013: Mitigation of Fuel Tank Explosions and Fires from IED Blasts

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To research, understand, and develop strategies for mitigating fuel tank explosions from improvised explosive device (IED) blasts for Marine Corps vehicle applications. DESCRIPTION: With the increased threat of IEDs during combat operations it is imperative to create a solution to decrease the severity of IED blasts on vehicles, particularly blasts impacting the fuel tank. When comb ...

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